

Method and system for grid-enabled virtual machines with distributed management of applications

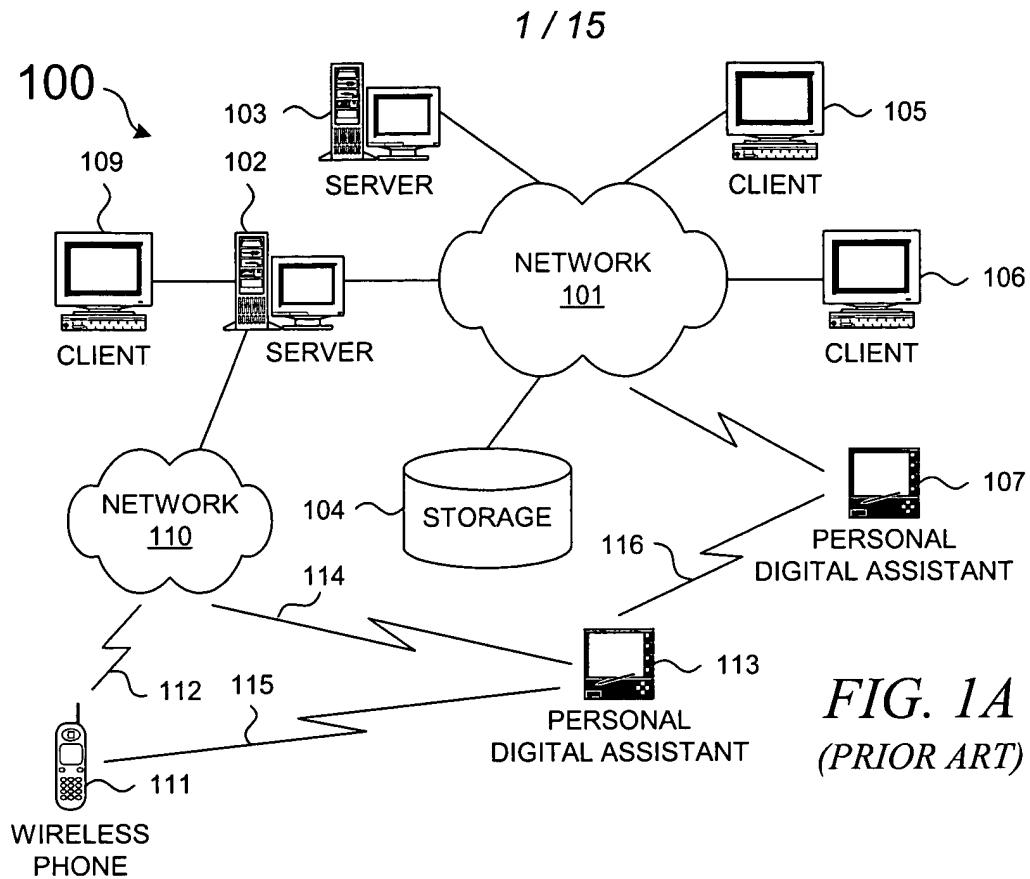


FIG. 1A  
 (PRIOR ART)

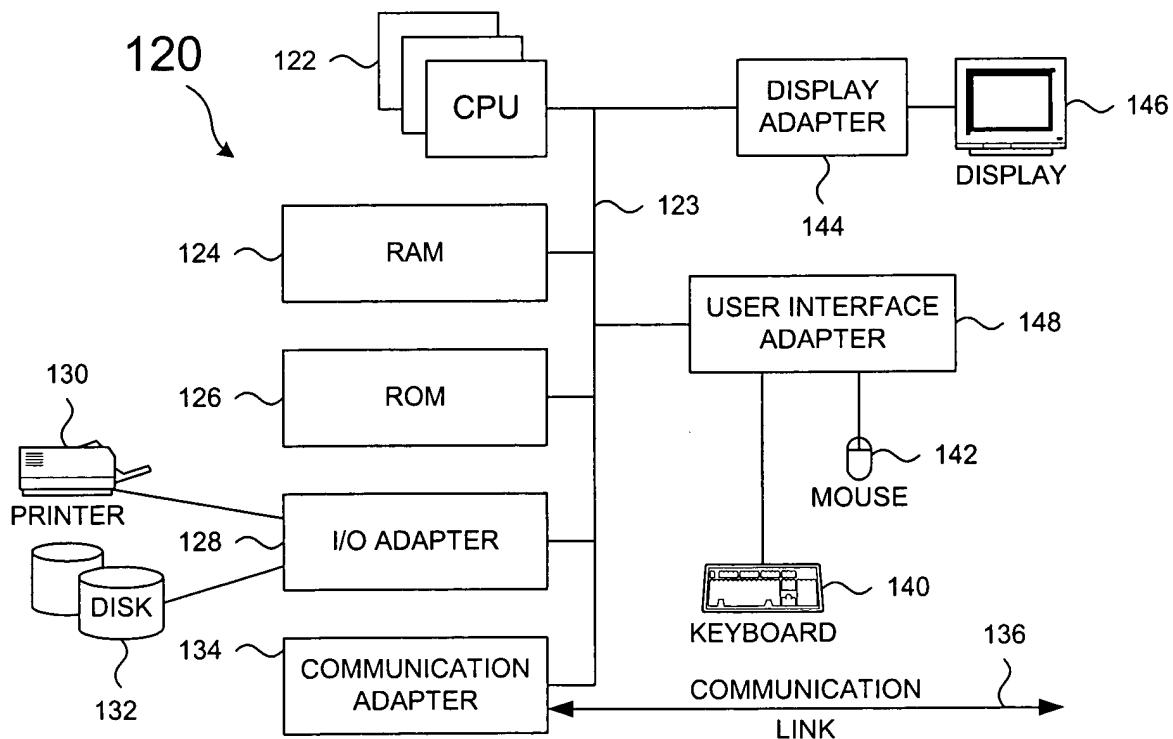


FIG. 1B  
 (PRIOR ART)

2 / 15

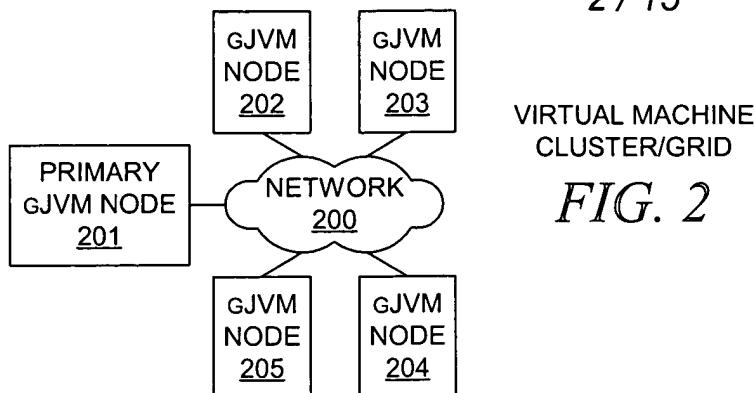


FIG. 2

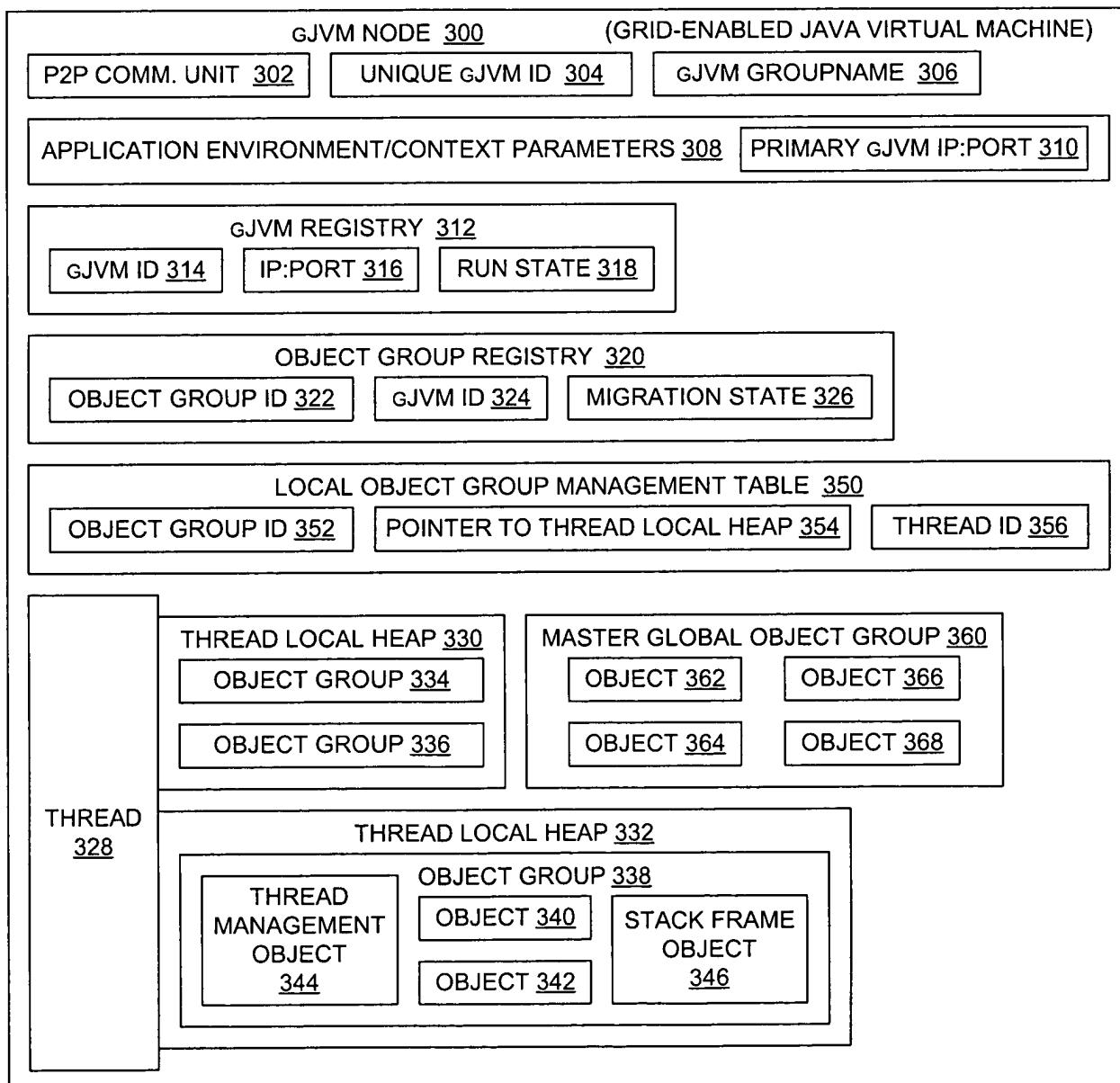


FIG. 3A

3 / 15

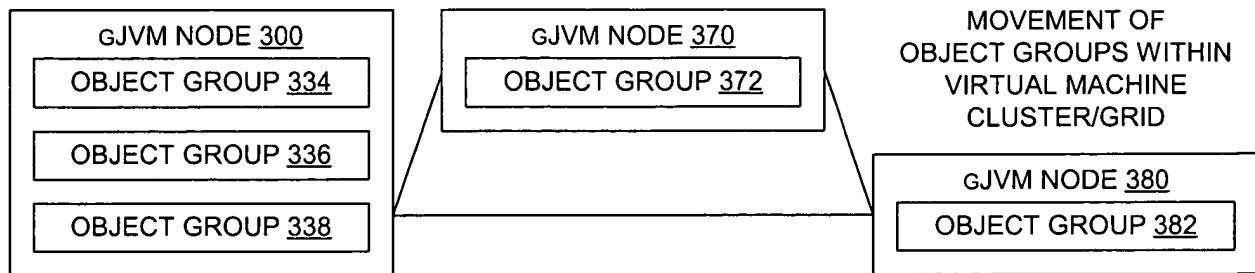


FIG. 3B

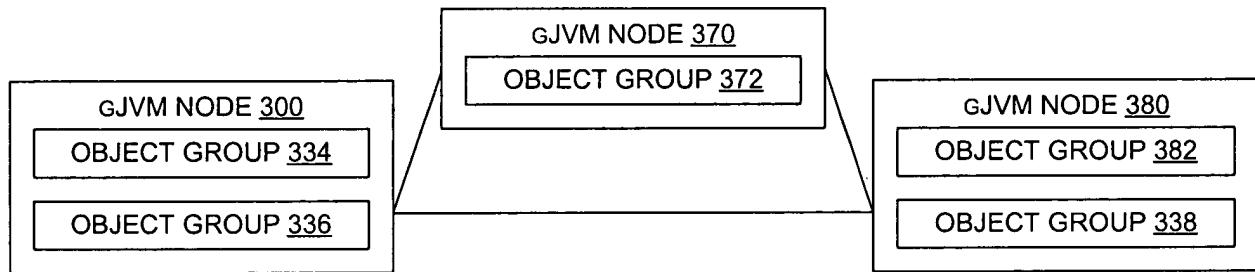


FIG. 3C

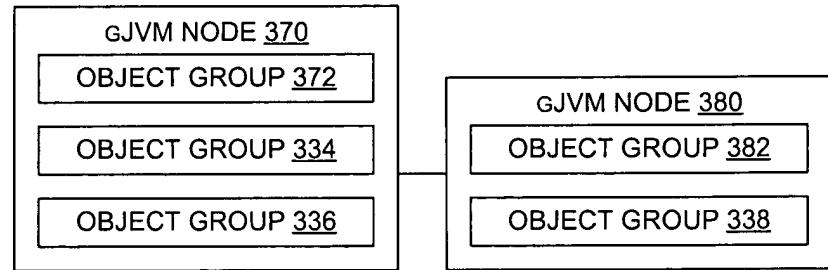


FIG. 3D

## INITIALIZATION OF PRIMARY GJVM NODE

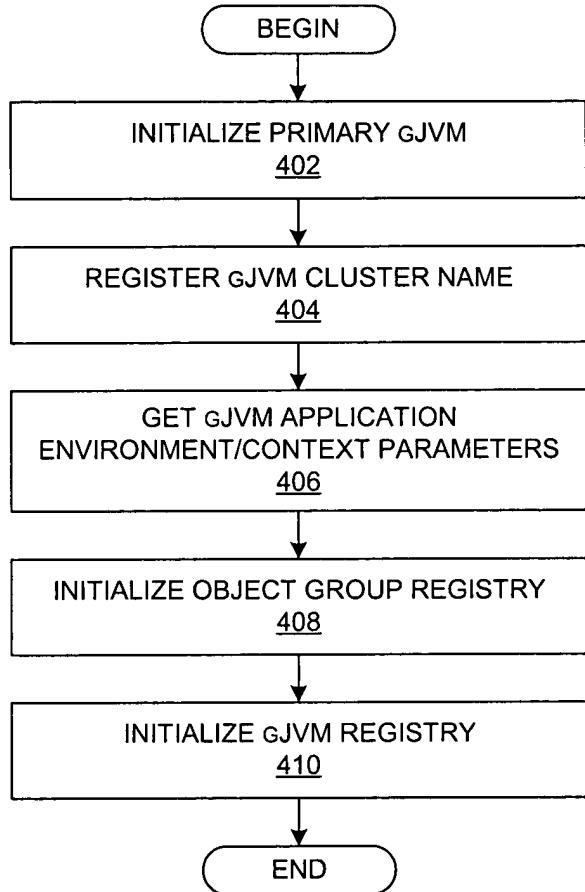


FIG. 4

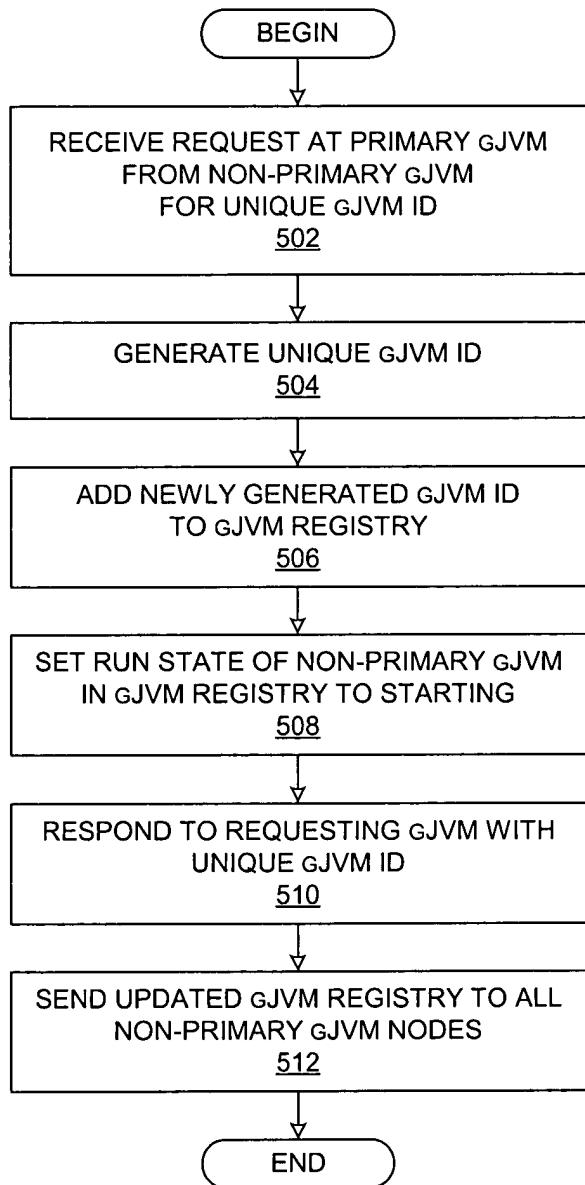
ALLOCATION OF UNIQUE ID TO  
NON-PRIMARY GJVM BY PRIMARY GJVM

FIG. 5A

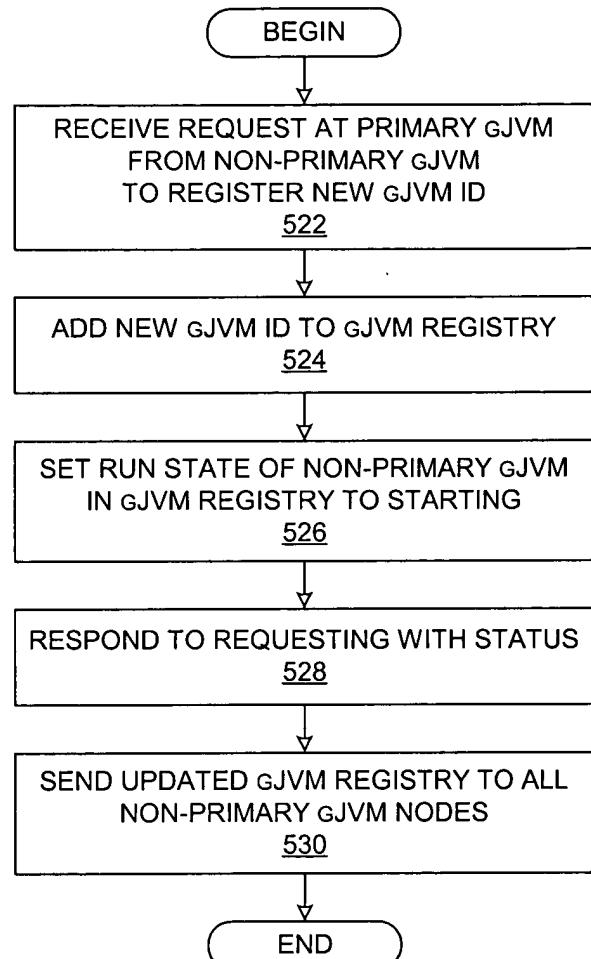
REGISTRATION OF UNIQUE ID FOR  
NON-PRIMARY GJVM BY PRIMARY GJVM

FIG. 5B

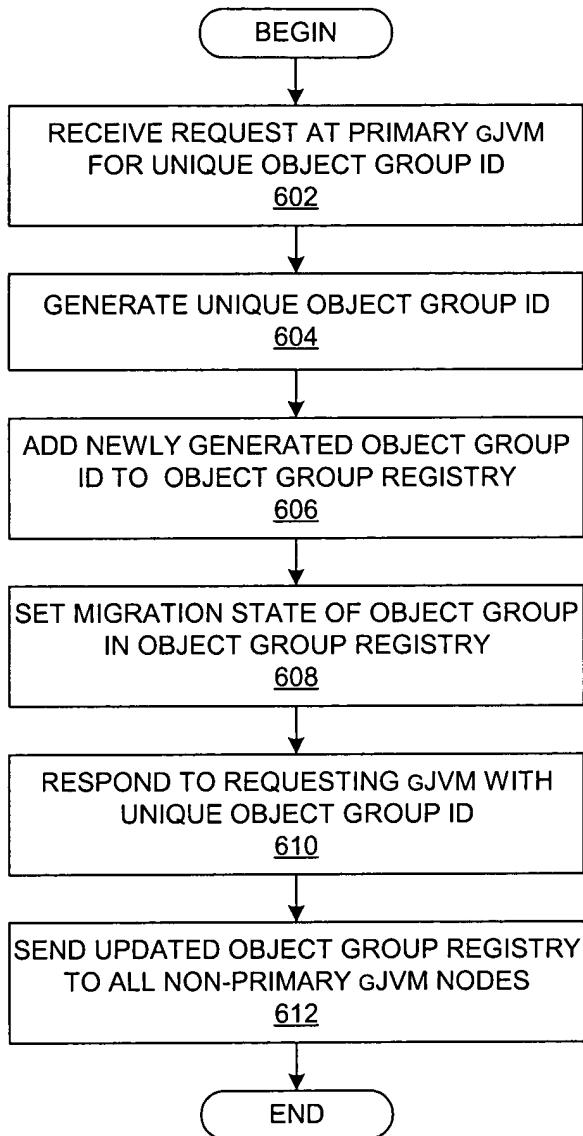
ALLOCATION OF OBJECT GROUP ID TO  
NON-PRIMARY GJVM BY PRIMARY GJVM

FIG. 6

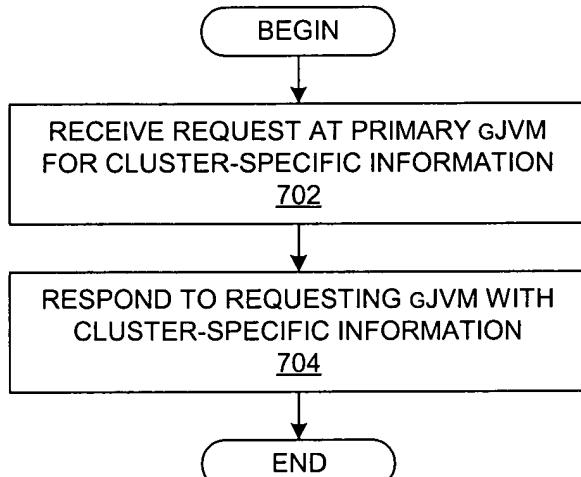
PROVISION OF CLUSTER-SPECIFIC INFO TO  
NON-PRIMARY GJVM BY PRIMARY GJVM

FIG. 7

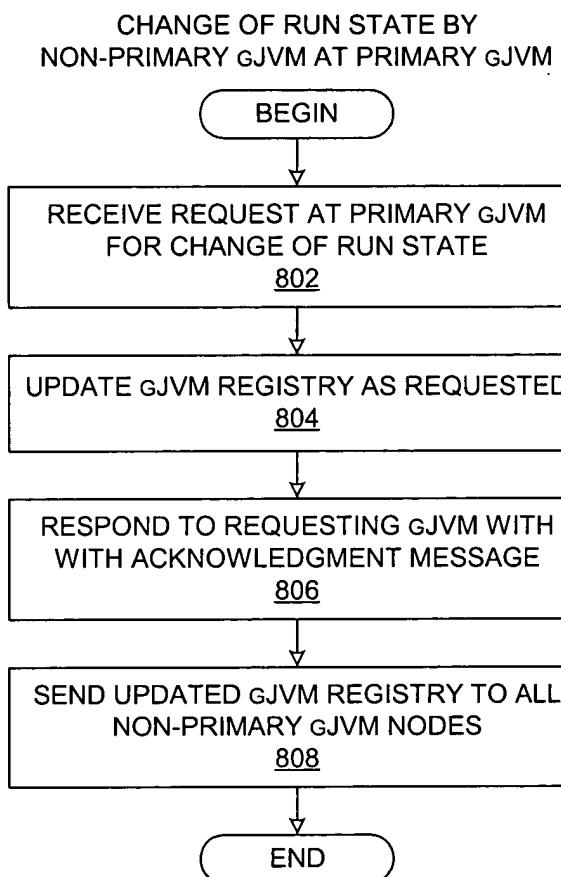


FIG. 8

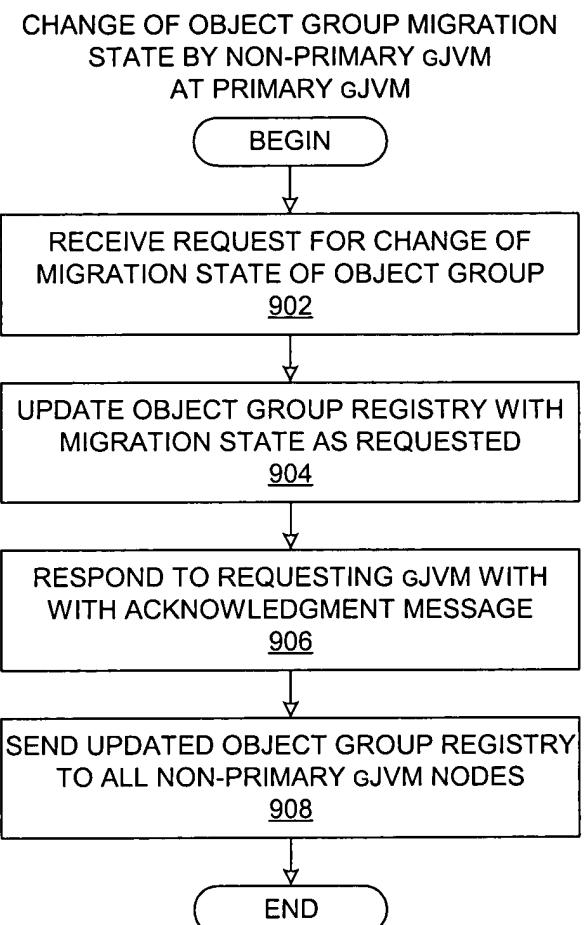


FIG. 9

## INITIALIZATION OF NON-PRIMARY GJVM NODE

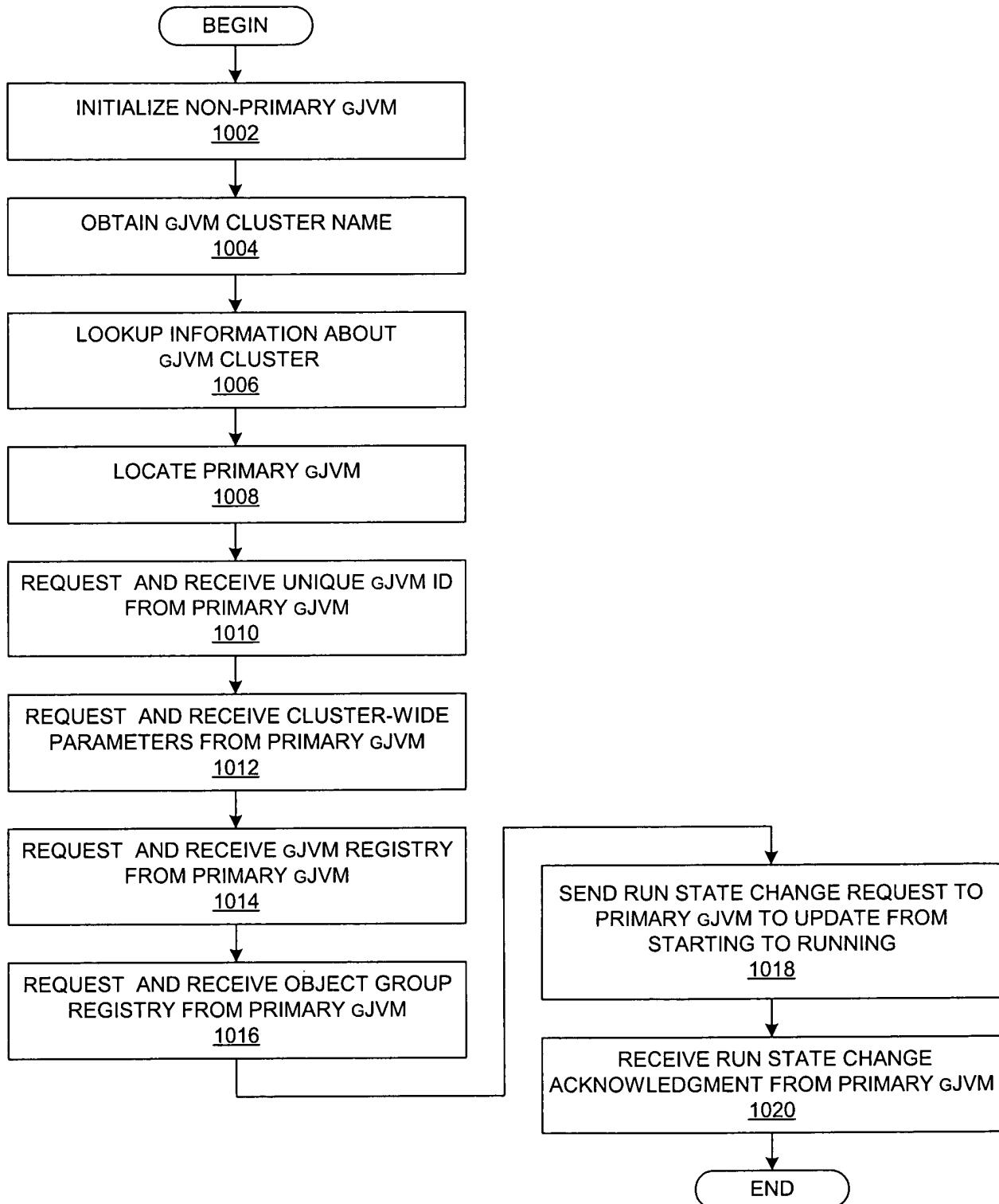
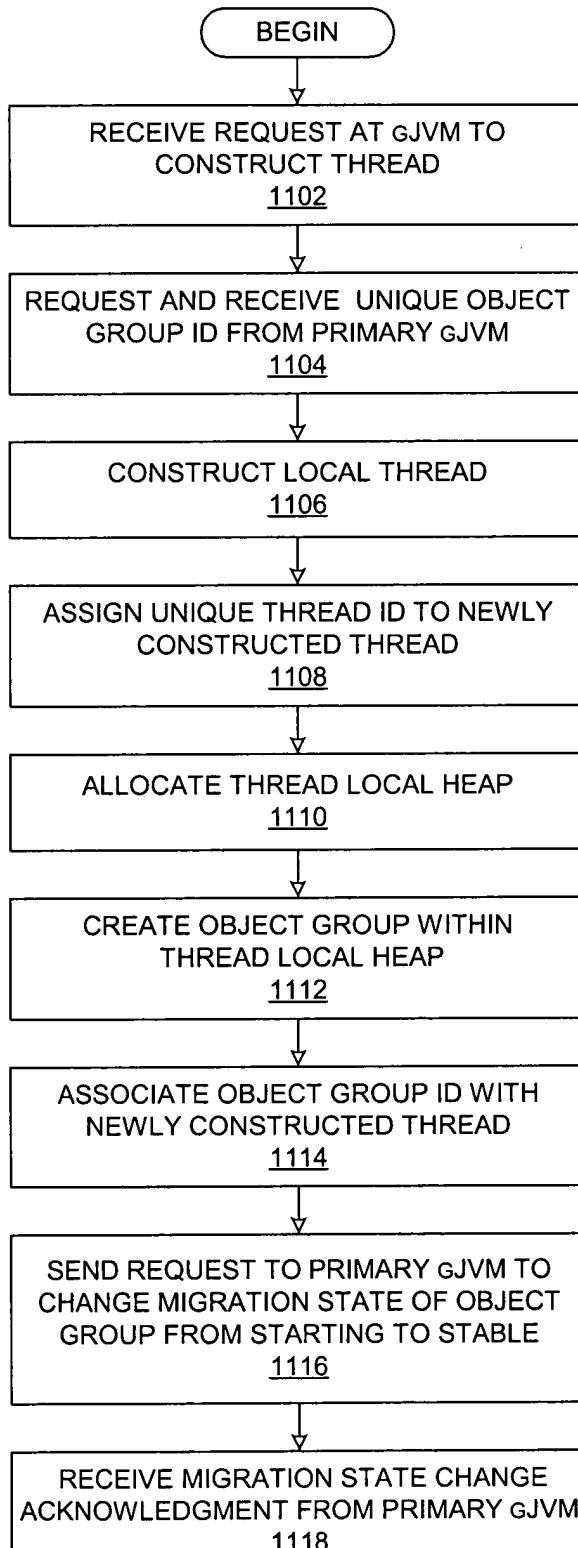


FIG. 10

## THREAD CONSTRUCTION IN GJVM NODE



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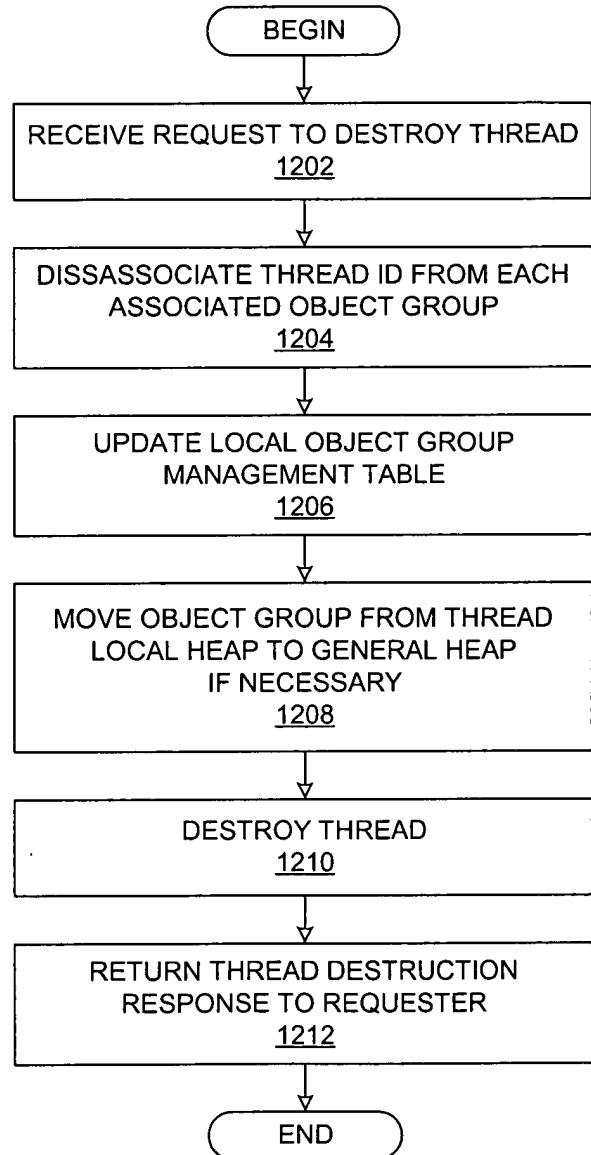


FIG. 12

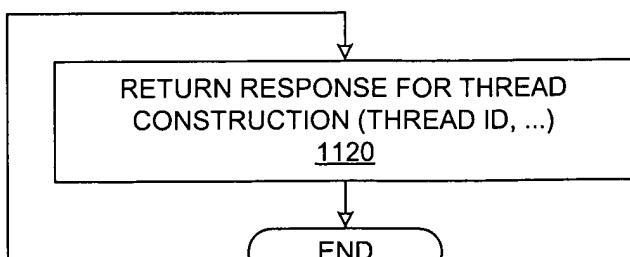


FIG. 11

## OBJECT ALLOCATION IN GJVM NODE

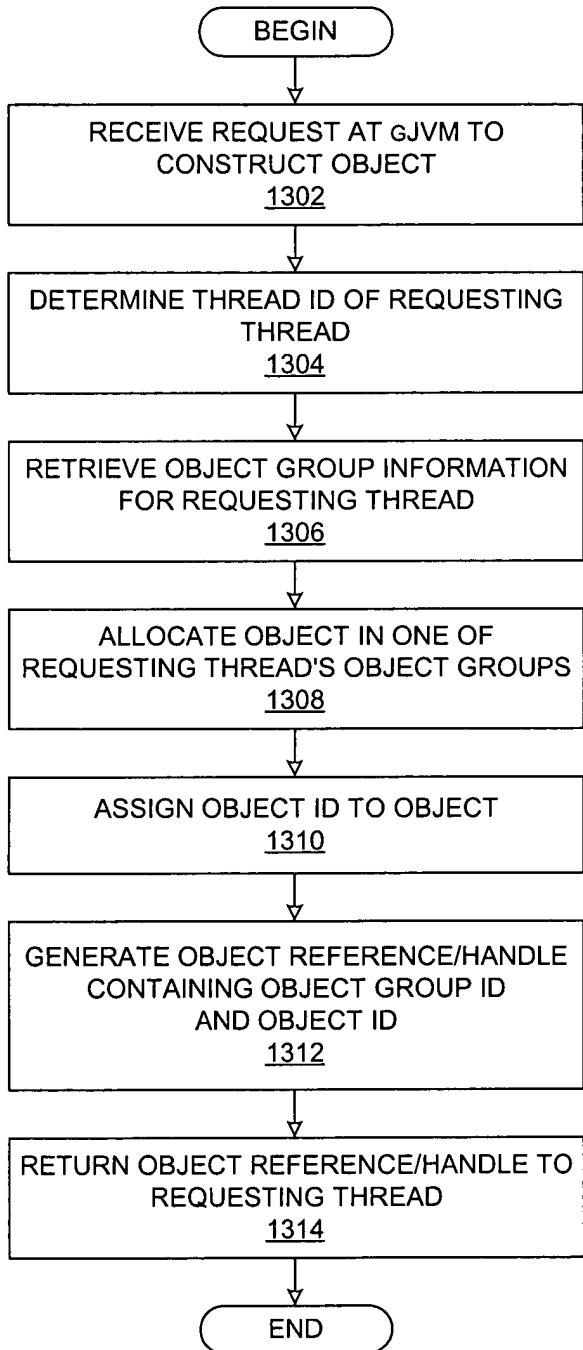


FIG. 13

## OBJECT REFERENCING IN GJVM NODE

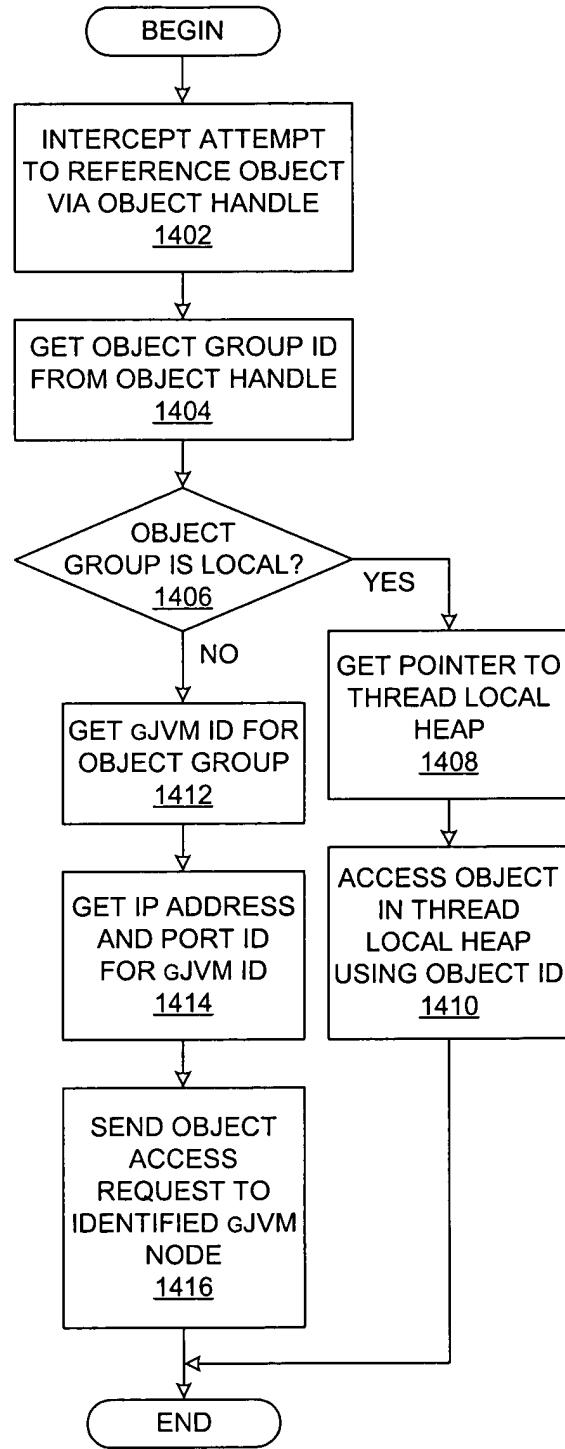


FIG. 14

11 / 15

## MIGRATION OF OBJECT GROUP FROM GJVM

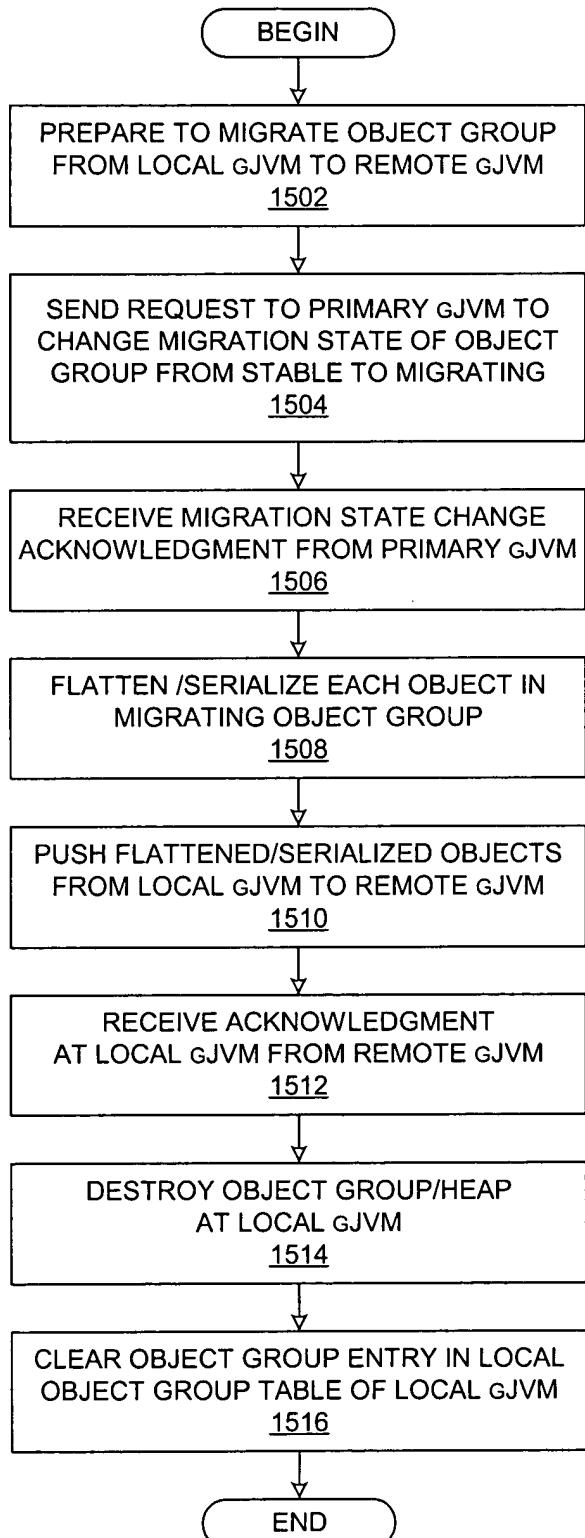


FIG. 15

## MIGRATION OF OBJECT GROUP TO GJVM

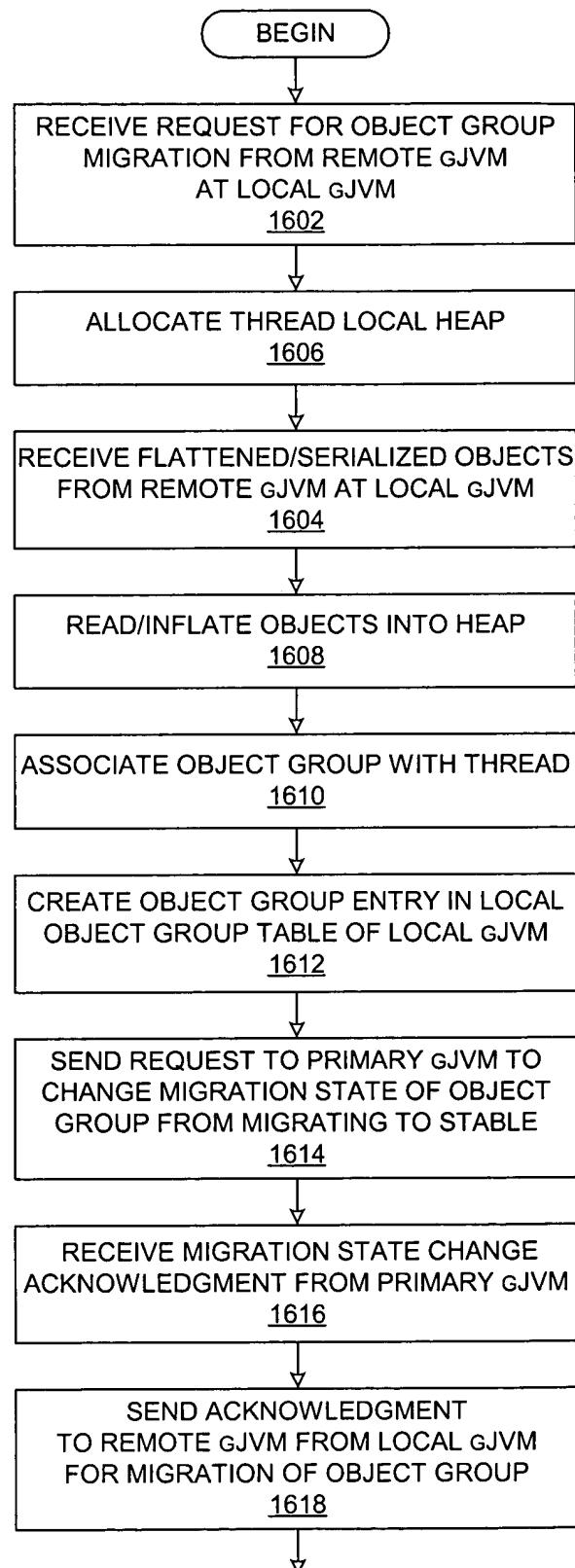


FIG. 16

## MIGRATION OF THREAD FROM GJVM

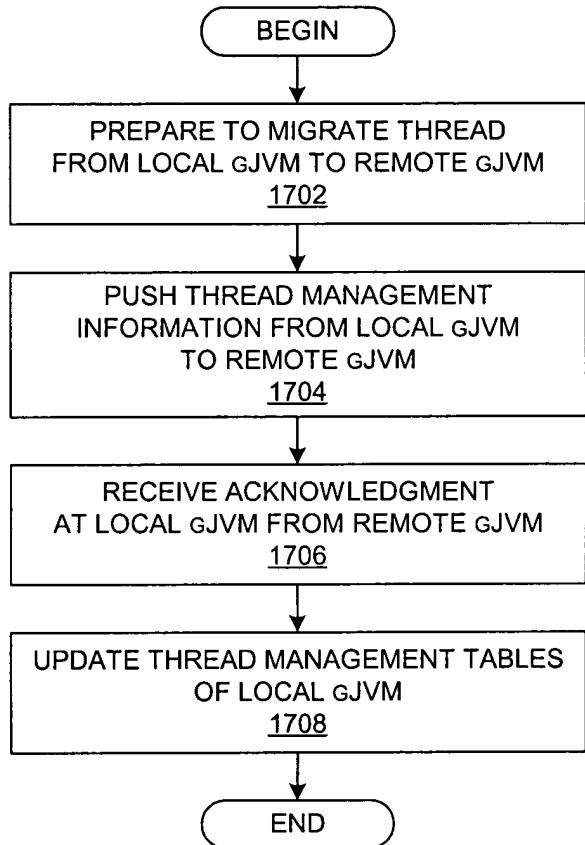


FIG. 17

## MIGRATION OF THREAD TO GJVM

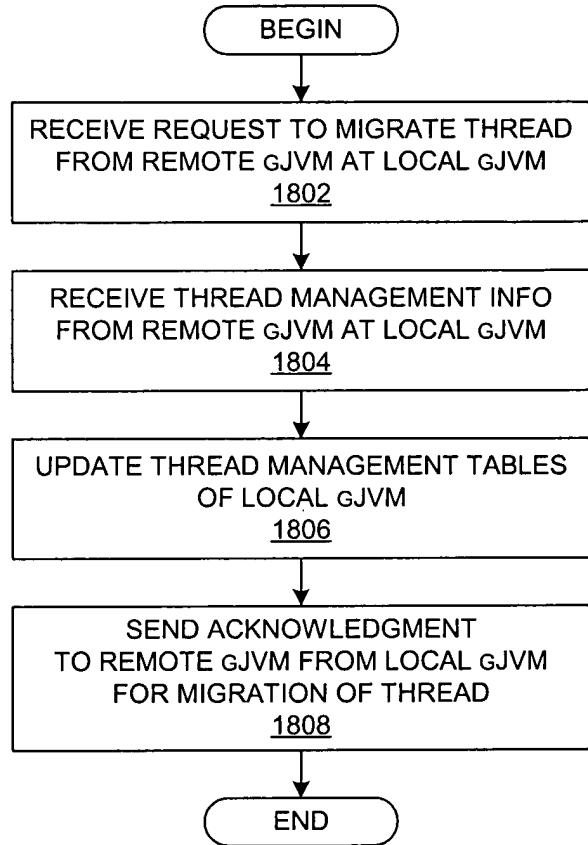


FIG. 18

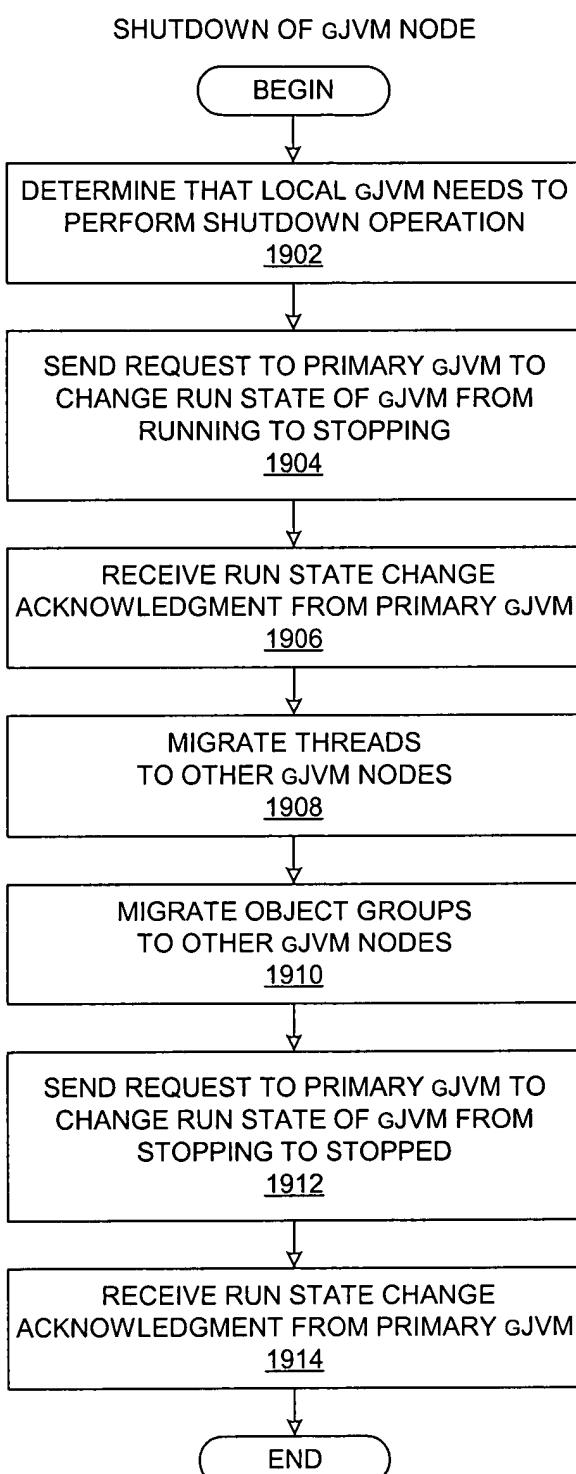


FIG. 19

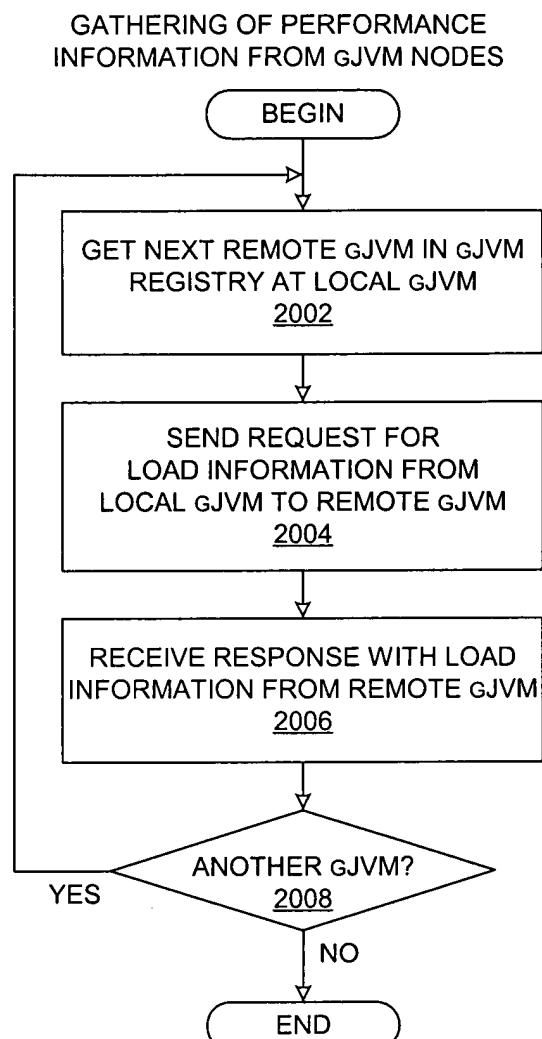


FIG. 20

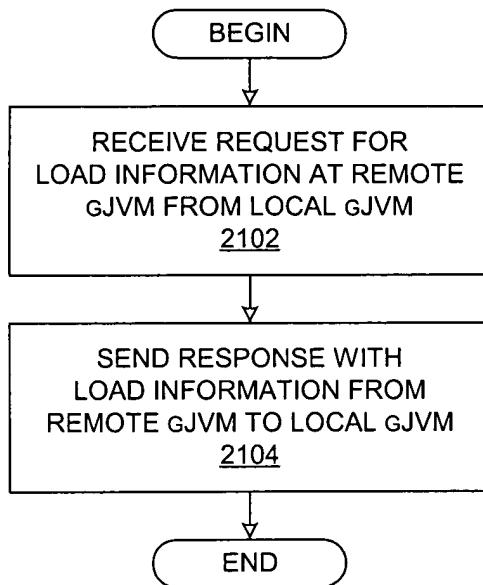
PERFORMANCE INFORMATION  
TRANSFER FROM GJVM NODE

FIG. 21

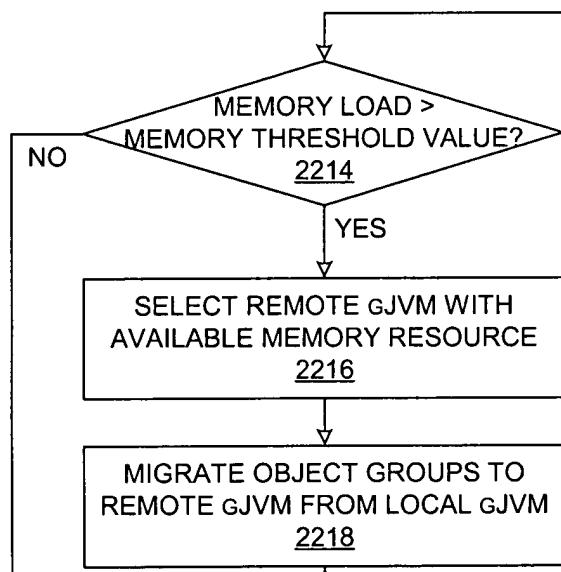
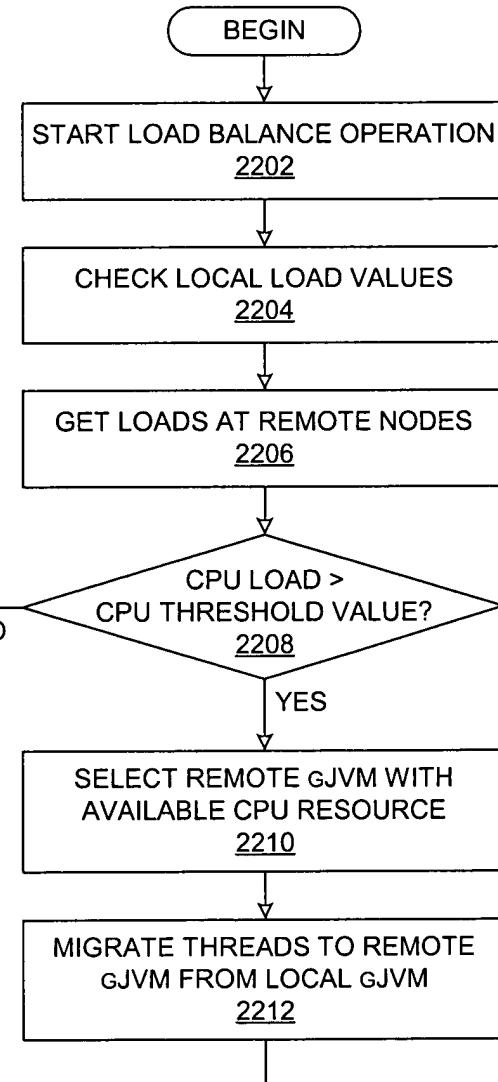
LOAD BALANCING BETWEEN  
GJVM NODES

FIG. 22

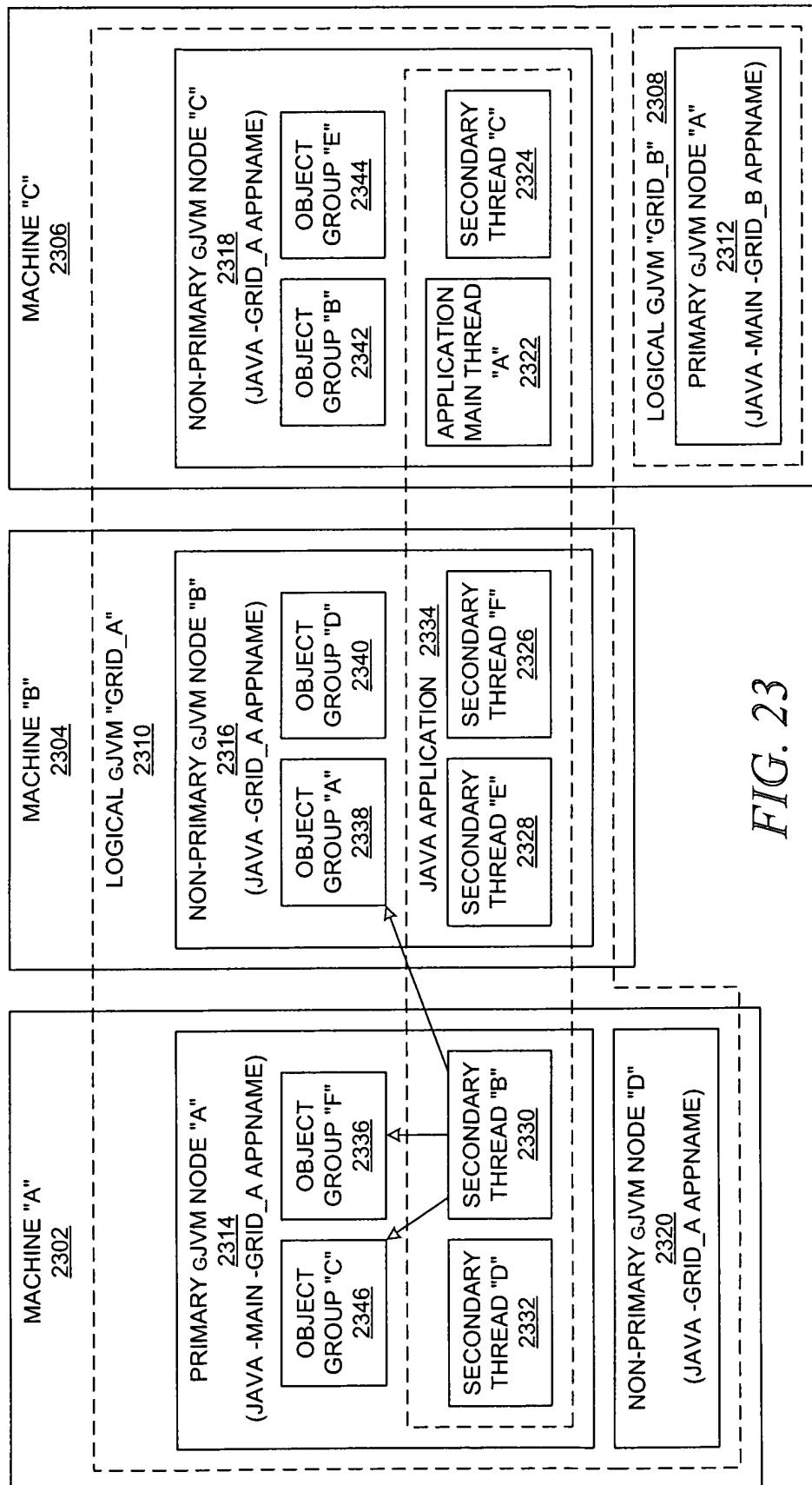


FIG. 23